

Appl. No. 10/526,954

Amd. Dated June 25, 2007

Reply to Office Action Dated March 23, 2007

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application.

Listing of Claims:

Please amend the claims as follows without prejudice. No new matter has been added by way of these amendments.

13. (Cancelled).
14. (Currently amended) The measuring sonde according to claim 25 ~~43~~, wherein the pivoting of the downstream and upstream arms relative to the skid is limited by the presence of abutments on the first and second pivot links.
15. (Cancelled).
16. (Currently amended) The measuring sonde according to claim 25 ~~45~~, wherein the secondary arm includes optical measurement means.
17. (Currently amended) The measuring sonde according to claim 25 ~~45~~, wherein the secondary arm is constituted by two parallel blades.
18. (Currently amended) The measuring sonde according to claim 25 ~~45~~, wherein the secondary arm can be received inside the downstream arm.
19. (Currently amended) The measuring sonde according to claim 25 ~~43~~, wherein the downstream arm and/or the upstream arm is/are constituted by parallel blades interconnected by bridges.

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20. (Currently amended)The measuring sonde according to claim 25 ~~13~~, wherein the axis of the main body is off-center relative to the axis of the well.
21. (Currently amended)The measuring sonde according to claim 25 ~~13~~, wherein the downstream and upstream arms are pivoted relative to the main body in a closed position in which the arms are received inside said main body and an open position in which said arms extend across the stream flowing along the well.
22. (Currently amended)The measuring sonde according to claim 25 ~~13~~, wherein the downstream arm and/or the upstream arm is/are connected to a motor module enabling arm movement relative to the main body to be controlled, said motor module being deactivatable.
23. (Currently amended)The measuring sonde according to claim 22, wherein the connection between the motor module and the downstream and/or upstream arms is separable.
24. (Currently amended)The measuring sonde according to claim 25 ~~13~~, wherein the upstream arm has measurement means for measuring the speed of the fluid flowing in the well.
25. (New) A measuring sonde for a hydrocarbon well, the sonde comprising a main body, a downstream arm, an upstream arm, and a secondary arm, at least one of said three arms being fitted with measurement means for determining the characteristics of the fluid flowing in the well, wherein
 - said downstream and upstream arms are connected to the main body respectively via first and second sliding pivot links (A and E); and to respectively first and second ends of a skid via first and second pivot links (B and D); and

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- said secondary arm is connected firstly to the main body via a third pivot link (F) and secondly to the skid via a third sliding pivot link (C).